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## SEQUENCE LISTING

*doc 92*

(1) GENERAL INFORMATION:

- (i) APPLICANT: Schering Corporation
- (ii) TITLE OF INVENTION: Thioredoxin/Heterologous Protein  
Bacterial Expression System
- (iii) NUMBER OF SEQUENCES: 14
- (iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Schering-Plough Corporation
- (B) STREET: 2000 Galloping Hill Road
- (C) CITY: Kenilworth
- (D) STATE: New Jersey
- (E) COUNTRY: U.S.A.
- (F) ZIP : 07033-0530

(v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: diskette
- (B) COMPUTER: Apple Macintosh
- (C) OPERATING SYSTEM: Macintosh 7.5.3
- (D) SOFTWARE: Microsoft Word 5.1a

(vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER:
- (B) FILING DATE:

(vii) PRIOR APPLICATION DATA

- (A) APPLICATION NUMBER: US 60/011,606
- (B) FILING DATE: 30-APR-1996

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Thampoe, Immac J..
- (B) REGISTRATION NUMBER: 36,322
- (C) REFERENCE DOCKET NUMBER: JB0600Q

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CCTGTGGAGT TACATATGAG CGATAAAATT 30

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

GCACCCAACA TGCAAGGATC CTTACGCCAG ATTAGCATCG AGGAACT 47

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

ATGAGCGATA AAATTATTCA CCTGACTGAC GACAGTTTTG ACACGGATGT 50  
ACTCAAAGCG GACGGGGCGA TCCTCGTCGA TTTCTGGGCA GAGTGGTGCG 100  
GTCCGTGCAA AATGATCGCC CCGATTCTGG ATGAAATCGC TGACGAATAT 150  
CAGGGCAAAC TGACCGTTGC AAAACTGAAC ATCGATCAAA ACCCTGGCAC 200  
TGCGCCGAAA TATGGCATCC GTGGTATCCC GACTCTGCTG CTGTTCAAAA 250  
ACGGTGAAGT GGCGGCAACC AAAGTGGGTG CACTGTCTAA AGGTCAGTTG 300  
AAAGAGTTCC TCGATGCTAA TCTGGCGTAA GGATCC 336

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 bases pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

ATGAGCGATA AAATTATTCA CCTGACTGAC GACAGTTTGT ACACGGATGT 50  
ACTCAAAGCG GACGGGGCGA TCCTCGTCGA TTTCTGGGCA GAGTGGTGCG 100  
GTCCGTGCAA AATGATCGCC CCGATTCTGG ATGAAATCGC TGACGAATAT 150  
CAGGGCAAAC TGACCGTTGC AAAACTGAAC ATCGATCAAA ACCCTGGCAC 200  
TGCGCCGAAA TATGGCATCC GTGGTATCCC GACTCTGCTG CTGTTCAAAA 250  
ACGGTGAAGT GCGGGCAACC AAAGTGGGTG CACTGTCTAA AGGTCAGTTG 300  
AAAGAGTTCC TCGAGGCTAA TCTGGCGTAA GGATCC 336

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 81 bases pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GAT AAT ATT CTG GCT GGT TCT GGT TCT GGT GAT GAC GAT GAC AAG 45  
Asp Asn Asn Leu Ala Gly Ser Gly Ser Gly Asp Asp Asp Asp Lys  
1 5 10 15  
  
GGT CCT GTT CCG CCG TCT ACC GCT CTG CGT GAG CTC 81  
Gly Pro Val Pro Pro Ser Thr Ala Leu Arg Glu Leu  
20 25

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 27 amino acids

(B) TYPE: amino acid

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Asp Asn Asn Leu Ala Gly Ser Gly Ser Gly Asp Asp Asp Asp Lys  
1 5 10 15  
  
Gly Pro Val Pro Pro Ser Thr Ala Leu Arg Glu Leu  
20 25

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

GAAGGAGGCT GATTAAATGG GTCCGCTTCC GCCGTCTACC GCTCTGGAGC 50  
TC 52

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

AAGGAGGCTG ATTAAATG 18

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 17 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

AAGGAGGCTG ATTAATG 17

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION SEQ ID NO:10:

AAGGAGGTTT AATG 14

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6 amino acids
- (B) TYPE: amino acid

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION SEQ ID NO:11:

Leu Asp Ala Asn Leu Ala 6

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION SEQ ID NO:12:

CTC GAT GCT AAT CTG GCG TAA 21  
Leu Asp Ala Asn Leu Ala 6

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION SEQ ID NO:13:

CTC GAG GCT AAT CTG GCG TAA 21

Leu Glu Ala Asn Leu Ala 6

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 6 amino acids

(B) TYPE: amino acid

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION SEQ ID NO:14:

Leu Glu Ala Asn Leu Ala 6